

Amendment to the Claims

1 (Currently Amended). A router in a service provider wide area for coupling into computer network (WAN) along which network traffic flows in a form of packets, wherein the wide area network is monitored by ~~comprises~~ a first management system of the service provider network and wherein an end user intranet is coupled to the wide area network and monitored by a second management system of the end user intranet, the router comprising:

at least one monitoring circuit coupled to the service provider WAN network, wherein the at least one monitoring circuit is operable to examine packets communicated to the router and to provide network information associated with selected ones of the examined packets;

circuitry for processing the provided network information based on a first type of analysis requested by the first management system and in response to receiving a request from the second management system of the end user intranet, processing the provided network information based on a second type of analysis requested by the second management system of the end user intranet at least one network node; and

circuitry for including processed network information based on the second type of analysis into one or more packets; and

circuitry for transmitting processed network information based on the first type of analysis to the first management system and transmitting the one or more packets with processed network information based on the second type of analysis over a data path in the WAN network ~~to the at least one node coupled to the network, wherein the at least one node is included within the~~ a second management system of the end user intranet ~~a second network and is outside of the first management system, wherein the processed network information based on the second type of analysis provides network information on operation of the WAN affecting operation of the end user intranet.~~

2 (Previously Presented). The router of claim 1:

wherein the first management system comprises a plurality of nodes operable to communicate according to a network management system protocol.

3 (Original). The router of claim 2 wherein the network management system protocol is selected from a group consisting of a Simple Network Management Protocol, a Common Management Information Protocol, and a Common Object Request Broker Architecture protocol.

4 (Previously Presented). The router of claim 2 wherein the first management system comprises a network management system/element management system.

5 (Previously Presented). The router of claim 1:
wherein a set of transmitted one or more packets correspond to a set of packets received at the router; and
wherein the circuitry for transmitting is for transmitting the one or more packets within a desired time period of when the router receives the set of packets received at the router.

6 (Canceled).

7 (Currently Amended). The router of claim 1 wherein the circuitry for transmitting is further for transmitting the one or more packets along the network-WAN to at least one node that is part of the first management system.

8 (Currently Amended). The router of claim 1:
wherein the circuitry for transmitting is further for transmitting the one or more packets along the WAN network to a plurality of nodes coupled to the WAN network; and
wherein the plurality of nodes are in the end user intranet and outside of the first management system.

9 (Currently Amended). The router of claim 1, and further comprising:

wherein the circuitry for transmitting is for transmitting a first set of the one or more packets along the WAN network to a first respective node in the end user intranet coupled to the WAN network;

wherein the circuitry for transmitting is for transmitting a second set of the one or more packets along the WAN network to a second respective node in the end user intranet coupled to the WAN network; and

wherein the first respective node and the second respective node are outside of the first management system.

10 (Previously Presented). The router of claim 9:

wherein the first set of the one or more packets corresponds to a first type of analysis performed by the circuitry for processing the provided network information; and

wherein the second set of the one or more packets corresponds to a second type of analysis, different from the first type of analysis, performed by the circuitry for processing the provided network information.

11 (Original). The router of claim 1:

wherein the at least one monitoring circuit is operable to examine packets in response to a set of criteria; and

wherein the selected ones of the examined packets correspond to packets that satisfy the set of criteria.

12 (Currently Amended). The router of claim 1 wherein the WAN network comprises the global Internet.

13 (Currently Amended). The router of claim 1 wherein the WAN ~~network~~ is selected from a group consisting of a cell-based network and a packet-based network.

14 (Previously Presented). The router of claim 1 wherein the provided network information comprises information copied from the examined packets.

15 (Previously Presented). The router of claim 1 wherein the provided network information comprises information not included in the examined packets.

16 (Previously Presented). The router of claim 1 wherein the provided network information is selected from the set consisting of packet time of arrival data, port arrival data, number of discarded packets, error packets, port utilization, and buffer utilization.

17 (Currently Amended). The router of claim 1 and further comprising a plurality of routers, and wherein each router in the plurality of routers is for coupling into the WAN ~~computer network~~, and wherein each router of the plurality of routers comprises:

circuitry for processing the provided network information based on a first type of analysis requested by the management system and based on a second type of analysis requested by at least one node coupled to the WAN ~~network~~; and

circuitry for including processed network information based on the second type of analysis into one or more packets; and

circuitry for transmitting processed network information based on the first type of analysis to the first management system and transmitting the one or more packets with processed network information based on the second type of analysis over a data path in ~~along~~ the WAN

~~network~~ to the at least one node coupled to the WAN network, wherein the at least one node is included within a second management system of the end user ~~a second~~ network and is outside of the first management system.

18 (Previously Presented). The router of claim 17 wherein at least two of the routers in the plurality of routers are operable to include respective processed network information into a respective set of one or more packets for transmission to a same destination node.

19 (Previously Presented). The router of claim 18 wherein the same destination node is outside of the first management system.

20 (Canceled). Please cancel claim 20.

21 (New). A method for providing network traffic statistics of a service provider network to an enterprise network, wherein the service provider network comprises a first management system and wherein the enterprise network comprises a second management system, comprising:

receiving a packet by a router in the service provider network from a node in the enterprise network, wherein the packet includes a request for network traffic statistics of the service provider network that affects the enterprise network;

performing an analysis of network traffic by the router in response to the request and generating network information;

transmitting the network information in one or more packets to the requesting node in the enterprise network.

22 (New). The method of claim 21, wherein the network information provides network traffic statistics of the service provider network needed to evaluate a level of compliance with a service level agreement (SLA) between the service provider and enterprise network.